

Program Standards and Matrix
INITIAL PROGRAMS IN MATHEMATICS EDUCATION

ND ESPB Standards	
<p>11010.1 The program requires problem solving and mathematical reasoning. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.</p> <p>11010.2 The program includes the study of mathematical connections, communication and representation. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.</p> <p>11010.3 The program requires candidates to demonstrate an understanding of the concepts of school mathematics including algebra and function, number and operation, geometry, statistics, probability, and measurement. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.</p> <p>11010.4 The program requires the study of the core mathematics content including calculus, axiomatic geometry, linear and abstract algebra, analysis, statistics, probability and computer programming. The program uses varied performance assessments of students' understanding and abilities to apply that knowledge.</p>	

11010.5 The program requires the study of the history and philosophy of mathematics. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.

11010.6 The program requires the appropriate use of technology. It requires the study, selection, and use of concrete materials to help students build understanding of mathematical concepts. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.

11010.7 The program requires the study of a variety of teaching methods and strategies. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.

11010.8 The program requires the study of formative and summative assessment strategies to determine students' understanding of mathematics and to help candidates monitor their own teaching effectiveness. The program uses varied performance assessments of candidates' understanding and abilities to apply that knowledge.